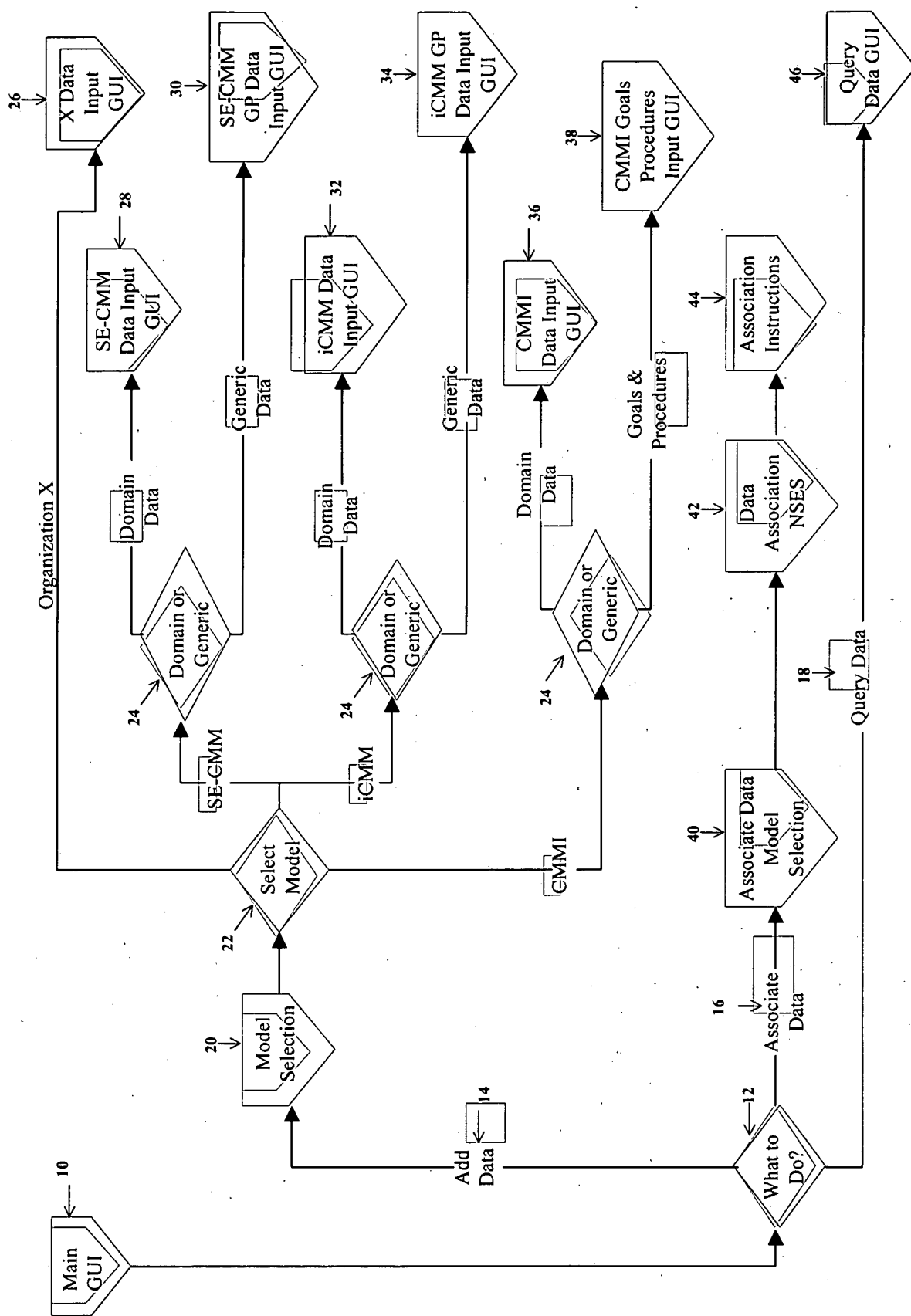
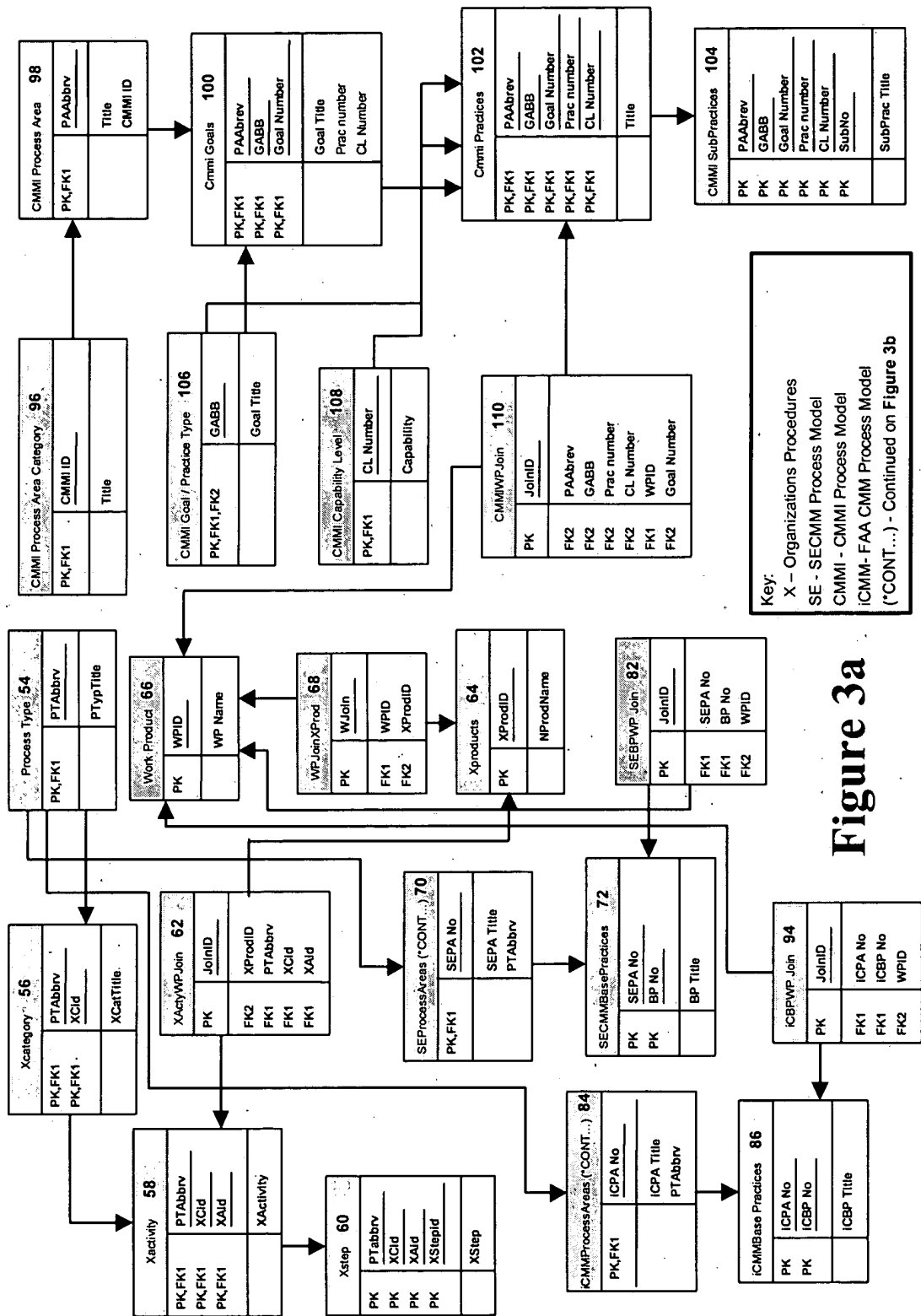
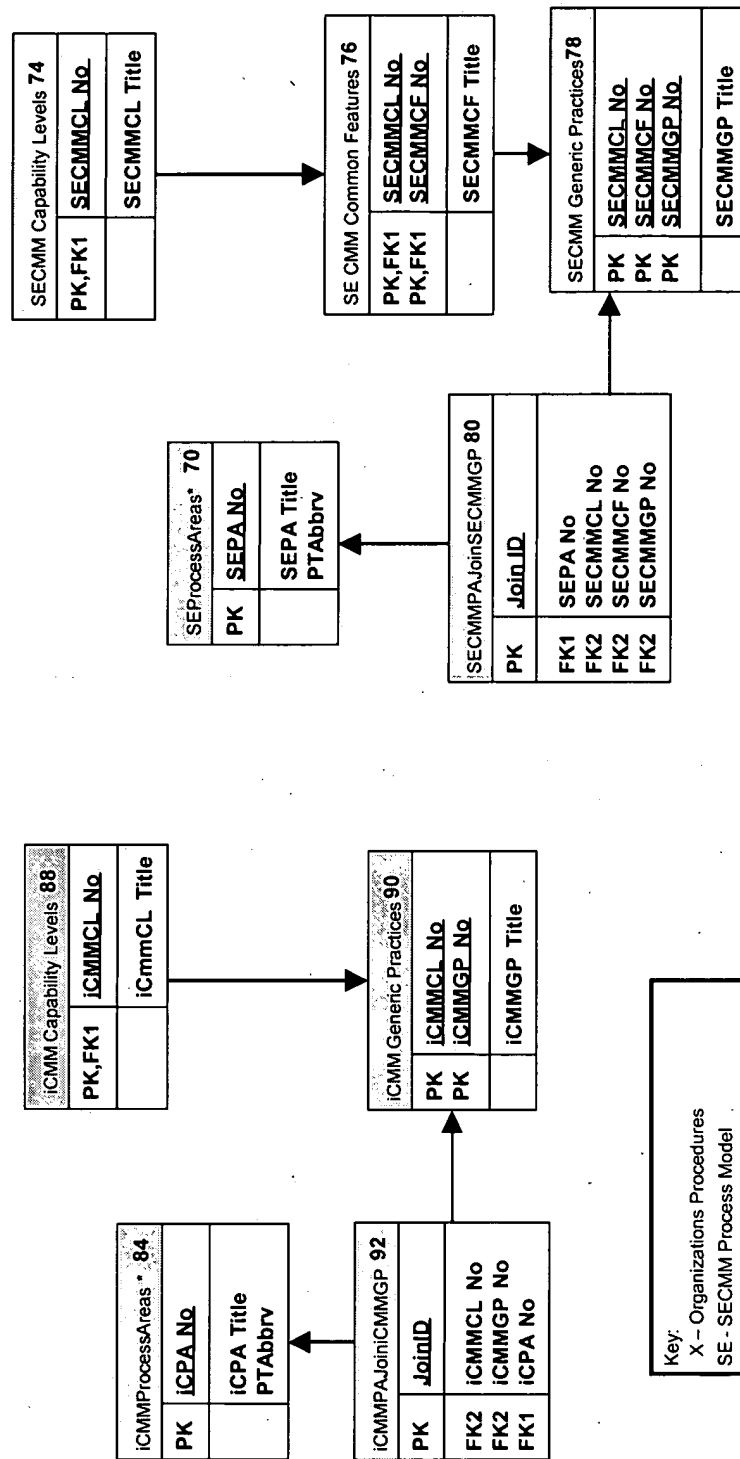


**Figure 1**



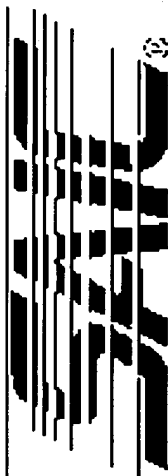
**Figure 2**





**Key:**  
X – Organizations Procedures  
SE – SECMM Process Model  
CMMI – CMMI Process Model  
iCMM- FAA CMM Process Model  
(\*CONT ...) – Continued on **Figure 3b**

Process Model Application Main Menu



*An Employee-Owned Company*

# SAIC Capability Model Tracer

SAIC Capability Model Tracer  
Version 1.0 (September 2002)

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Add Data to the  
Model

Query Data in  
the Model

Associate Data  
in the Model

Reports

EXIT the  
Program

Figure 4

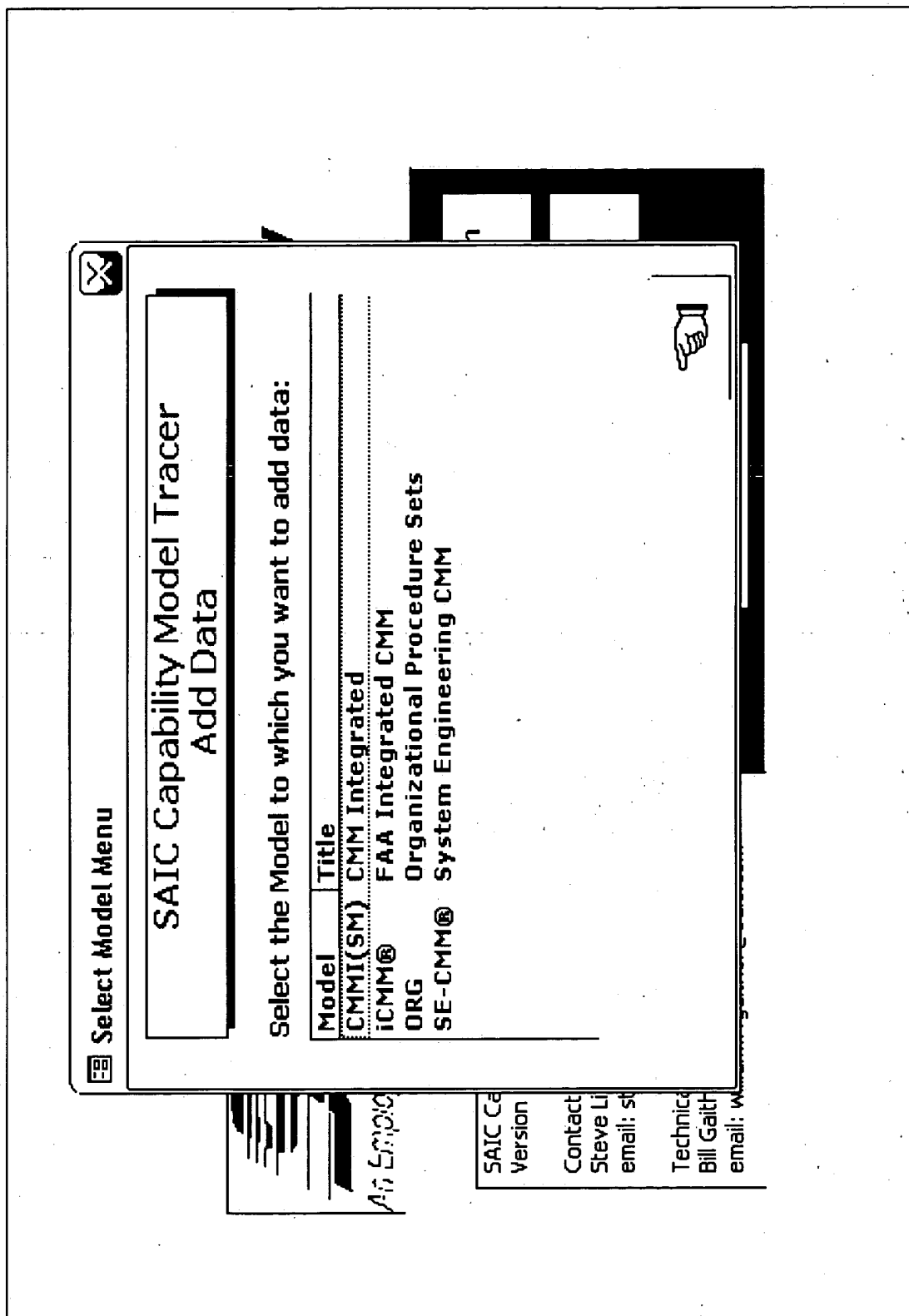


Figure 5

CMMI Add/Edit Data

SAIC Capability Model Tracer

Add/Edit CMMI Data

Select Process Area Category:

E - Engineering

Generic Goals and Practices

Select the Process Area you wish to work with:

PI - Product Integration

CMMI Specific Goals:

Goal Type	Goal Nbr	Goal Title	
SG	1	Prepare for Product Integration	X
SG	2	Ensure Interface Compatibility	X
SG	3	Assemble Products Components and Deliver the Product	X
SG	0		X

CMMI Specific Practices:

Cap Lvl	Prct Nbr	Practice Title	
1	SP 1	Determine Integration Sequence	X
1	SP 2	Establish the Product Integration Environment	X
1	SP 3	Establish Product Integration Procedures and Criteria	X
	SP 0		X

Add/Edit SubPractices

Add/Edit Process Area

Add/Edit Process Area Categories

Figure 6

SAIC Capability Model Tracer

Add/Edit CMMI Data

Select Process Area Category: E - Engineering

Generic Goals Practices

frm\_CMMI\_SubPractices : Form

SAIC Capability Model Tracer

Add/Edit CMMI Specific SubPractices

SG-1 - Prepare for Product Integration

SP-1 - Determine Integration Sequence

1.1-1	1	Identify the product components to be integrated	<input checked="" type="checkbox"/>
1.1-1	2	Identify the product integration verifications to be performed using the definition of the interfaces between the product components	<input checked="" type="checkbox"/>
1.1-1	3	Identify alternative product-component integration sequences	<input checked="" type="checkbox"/>
1.1-1	4	Select the best integration sequence	<input checked="" type="checkbox"/>
1.1-1	5	Periodically review the product integration sequence and revise as needed	<input checked="" type="checkbox"/>
1.1-1	6	Record the rationale for decisions made and deferred	<input checked="" type="checkbox"/>

Figure 7



SAIC Capability Model Tracer

Add/Edit CMMI Data

frm\_CMMIPProcessAreas : Form

Select Process Area Category: E - Engineering

Generic Goals and Practices

Add/Edit CMMI Process Areas

SAE	Casual Analysis and Resolution
CM	Configuration Management
DAR	Decision Analysis and Resolution
IPMIPPD	Integrated Project Management for IPPD
ISM	Integrated Supplier Management
IT	Integrated Teaming
MA	Measurement and Analysis
OEI	Organizational Environment for Integration
OID	Organizational Innovation and Deployment
OPD	Organizational Process Definition
OPF	Organizational Process Focus
OPP	Organizational Process Performance
OT	Organizational Training
PI	Product Integration

SubPractices

Area

Area Categories

Product

Int

Criteria

XX

XX

XX

XX

Figure 8



# Add/Edit SE-CMM Domain Practices

## iCMM® Domain Practices Add/Edit Data

Select Process Type: LEP - Lifecycle or Engineering Procedure Generic Practices

### Process Area

PA	01	Needs	XX
PA	02	Requirements	XX
PA	03	Architectures	XX
PA	04	Alternatives	XX
PA	05	Outsourcing	XX
PA	06	Software Development and Maintenance	XX

### Base Practices

BP 01.	01	Elicit Needs	XX
BP 01.	02	Analyze Needs	XX
BP 01.	03	Develop System Requirements	XX
BP 01.	04	Obtain Customer Agreement	XX
BP 01.	05	Inform Customer	XX



Figure 10

## iCMM Generic Practices Add/Edit Data

Select Capability Level:  - Repeatable: Planned and Tracked

### iCMM Generic Practices

- |   |                             |                                  |
|---|-----------------------------|----------------------------------|
| 1 | Establish policy            | <input type="button" value="v"/> |
| 2 | Allocate adequate resources |                                  |
| 3 | Assign responsibilities     |                                  |
| 4 | Ensure training             |                                  |
| 5 | Document the process        | <input type="button" value="v"/> |



Figure 11



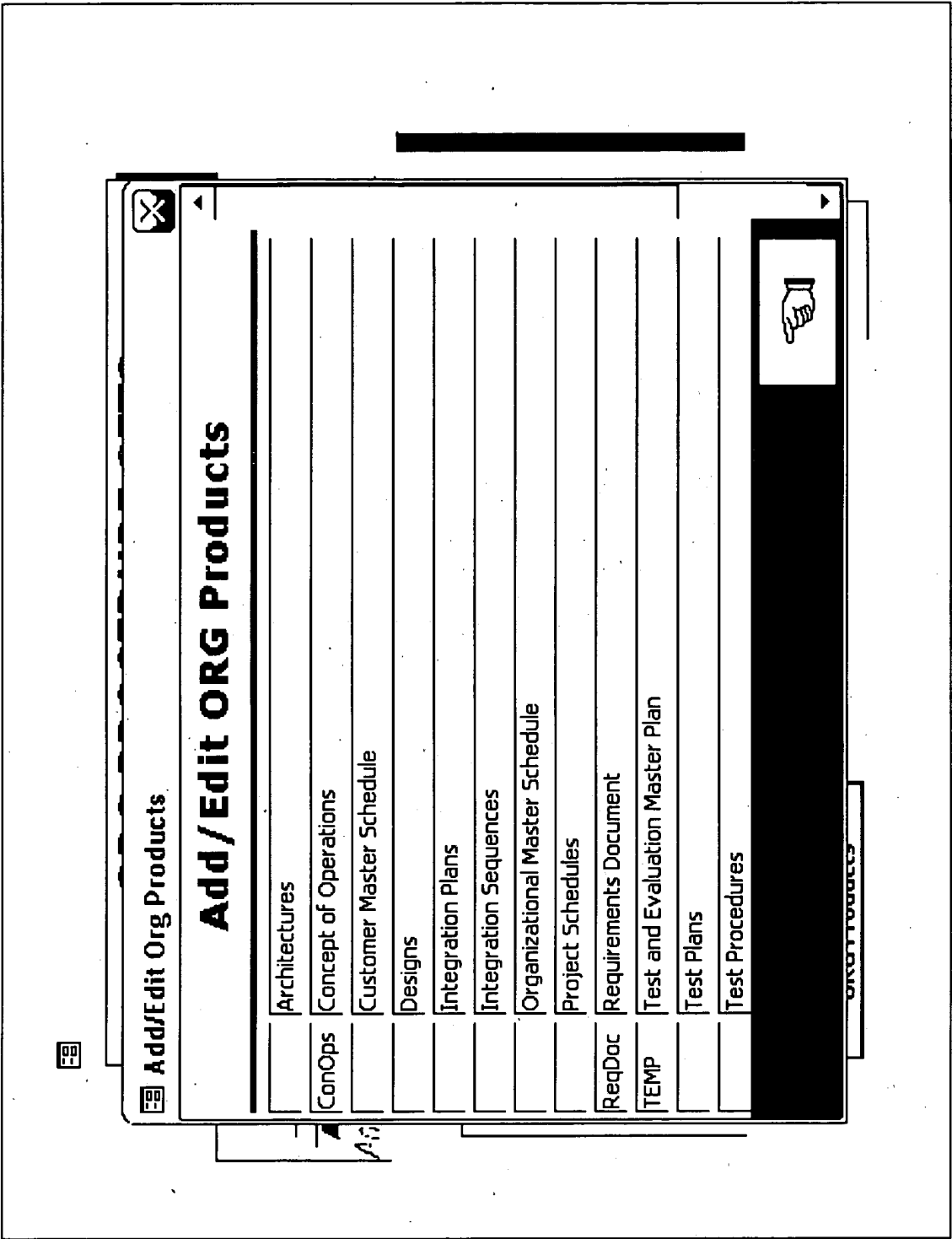


Figure 13

Add/Edit SE-CMM Domain Practices

## SE-CMM® Domain Practices Add/Edit Data

Generic  
Practices

### Process Area

PA	01	Analyze Candidate Solutions	X
PA	02	Derive and Allocate Requirements	X
PA	03	Evolve System Architecture	X
PA	04	Integrate Disciplines	X
PA	05	Integrate System	X

### Base Practices

BP 01.	01	Establish Evaluation Criteria based on the ide	X
BP 01.	02	Define the general approach for the analysis,	X
BP 01.	03	Identify Alternatives for Evaluation in addition	X
BP 01.	04	Analyze the Competeing Candidate Solutions	X
BP 01.	05	Select the Solution that Satisfies the Establis	X
BP 01.	06	Capture the Disposition of Each Alternative U	X



Figure 14

SE-CMM Add/Edit Data

System Engineering CMM  
Generic Practices  
Add/Edit Data

Select Capability Level: 1 - Performed Informally

Common Features

1. 1 Base Practices are Performed

Generic Practices

1 perform the process

Figure 15



## SE-CMM® Domain Practices Add/Edit Data

Add/Edit Work Products

### Add/Edit Work Products

SEBP 01.01 Establish Evaluation Criteria based on the identified problem and its defined constraints

Enter Work Product Name:

Captured Evaluation Criteria  
Defect Data-related Criteria  
Trade-Study Criteria

Delete  
Associations



Figure 16

10
B
I
U
A

Associate Organizational Products to Work Products

SAIC Capability Model Tracer

Organizational Products To Work Products

Architectures<----->"Best" Architecture/Design Alternative
Architectures<----->Architecture/Design Constraints
Architectures<----->Conceptual Architecture/Design Alternatives
Architectures<----->Designated Architecture Framework
Architectures<----->Detailed Architecture/Design Alternatives
Architectures<----->Newly Developed Architecture/Design/Requirements/CONOPS Documents
Architectures<----->Request for Change (RFC) Documents with Change Pages to Existing Baseline Architect
Architectures<----->Objective Architecture

Select Model
Enter Key Word:

All
CMMI
iCMM
Org
SeCMM

Organizational Products:

Architectures
Concept of Operations
Customer Master Schedule
Designs
Integration Plans
Integration Sequences
Organizational Master Schedule
Project Schedules
Requirements Document
Test and Evaluation Master Plan
Test Plans
Test Procedures

Associate

Work Products:

Acceptability and evaluation criteria
Action item tracking system
Action Item/Lien List
Action items
Action Items, Liens
Action Items, Liens, and Results
Advantages and Disadvantages for each s
Analyses, Trade Studies to be Performed
Analysis Plan
Analysis Results
Analysis Results, Models, Trade Studies
Appraisal Data and Results

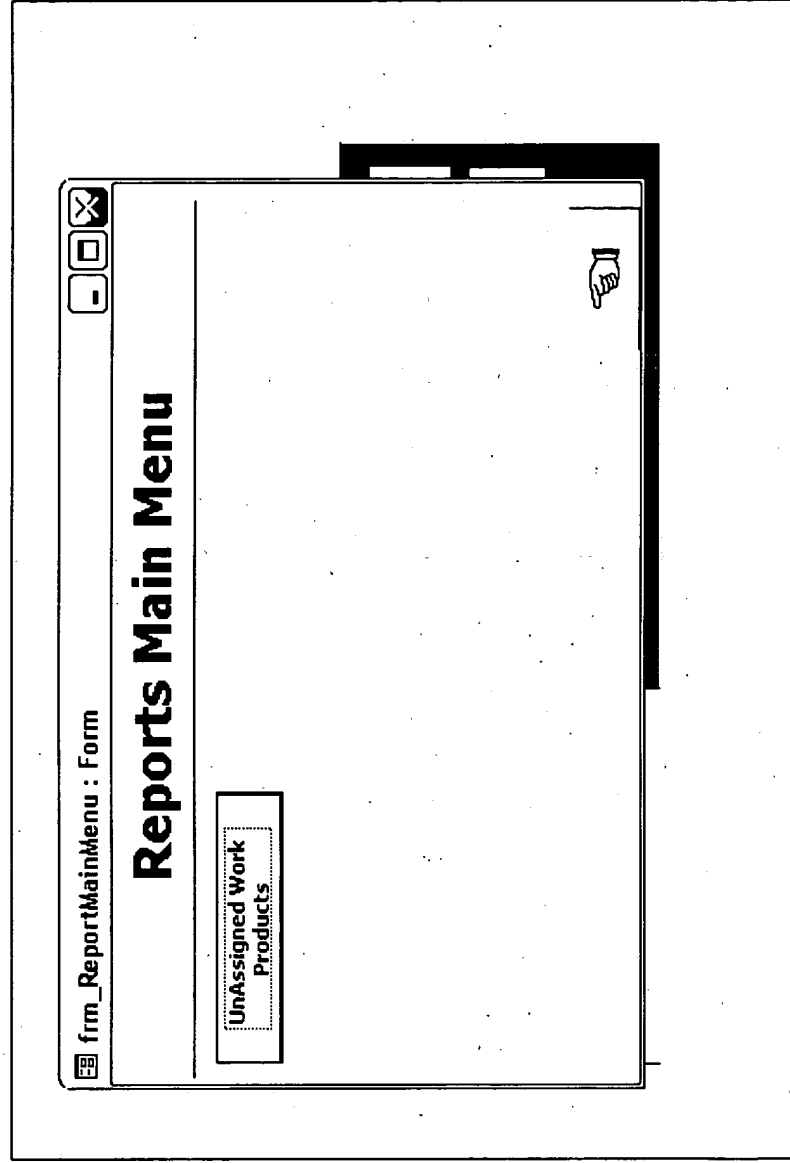
Delete Association

Add Org Products

Advantages and disadvantages for each supplier

Figure 17





**Figure 19**

The following work products have not been associated with an Organizational Product:

Alternative Integrated Items  
 Acceptability and evaluation criteria  
 Acceptance documents  
 Acceptance reports addressing system element interfaces  
 Acceptance test procedures  
 Acceptance test results  
 Acquisition Program Baseline  
 Acquisition's history  
 Acquisition Strategy Paper  
 Action Item list  
 Action item tracking system  
 Action item status list  
 Action item status list  
 Action items  
 Action items to updating interfaces  
 Action items or recommendations for changes  
 Action items tracked to closure  
 Action items, plans, and results  
 Action items, plans, and results  
 Action proposals  
 Action proposals selected for implementation  
 Actions resulting from the review  
 Activity errors  
 Activity diagrams and use cases  
 Activity report  
 Actual process and product measures collected from the product  
 Adapt Development Processes  
 Advantages and disadvantages for each supplier  
 Advantages and disadvantages of candidate suppliers  
 Advantages and disadvantages of each supplier  
 agendas  
 agendas  
 agendas and schedules for collaborative activities  
 agendas and schedules of Collaborative Activities  
 allocated to critical requirements  
 Alternative concepts for integrated item's resources that include responsibilities, costs, and interfaces  
 Alternative solution screening criteria

## Figure 20